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A VALUABLE *gum* exudes from this tree ; for the collecting of which, the Society established in London for promoting Arts and Manufactures, offered a premium of *Twenty Pounds Sterl.* for the greatest quantity, not less than *fifty pounds weight* that should be collected from the *Perfimom Tree*, in any of the British colonies in America, and imported from thence into the port of London, between the first of April, 1762, and the first of April, 1763. And for the next greatest quantity, not less than *twenty-five pounds weight*, a premium of *Ten Pounds Sterling*,

I HAVE also been informed, that an excellent *beer* is made of *Perfimons* in some of the southern provinces.

HENCE it will appear, that the cultivation of the *Perfimom Tree* is an object worthy the attention of our farmers, as it promises great profit to themselves, and a still greater advantage to the community in general.

A letter from Doctor OTTO to Doctor BOND, gives the following account of an Oil, made from the seeds of the common large SUN-FLOWER, viz.

“ THE oil is made much in the same manner as the
 “ linseed oil with fire, only that the husk is taken off
 “ before it is pounded and pressed ; tho’ I think it would be
 “ much better if it had been drawn cold. One bushel of the
 “ seed, in the manner this was made, yields about three
 “ quarts of oil : What quantity of oil one acre of land will
 “ produce, I cannot assert at present ; however, there is a
 “ spot of land planted, and the seed now ripening, the con-
 “ tents whereof we will measure, and also the produce, and I
 “ will inform you of the result. It is frequently used by our
 “ brethren, instead of sweet oil, for salad, and, with a small
 “ addition of the sweet oil, serves very well for that purpose.”

UPON examining some of the oil which was sent by Dr. OTTO, it was found thin, clear, and agreeable to the taste.
 And

And the committee are of opinion, that this oil will supply the place of olive oil for the above, and many other purposes, and may therefore be looked upon as a valuable discovery to America.

DOCTOR BOND, at the same time, produced a sample of oil, made from the cotton seeds, and sent by the same gentleman, of which he gives this account : This is the oil bombac. or oil of cotton seed, made in the same manner as the above, one bushel and a half of which yield nine pints of oil, and I have been informed it is successfully used in the West-Indies for the cholic.

An Essay on the expressing of OIL, from SUN-FLOWER SEED, &c. By Dr. J. MORGAN.

THE grinding of the sun flower seeds, and expressing of oil from the same, is a manufacture, which, as far as can be yet learned, was first begun among the Moravian brethren at Bethlehem, and reflects honour upon them, whilst it affords the public a new substance, very beneficial in a variety of purposes, but more especially, as it may serve for a salad oil, and for other uses of diet and medicine, in the place of olive oil.

FROM experiments already made at Bethlehem, it is found that a bushel of the sun-flower seed will yield, on expression, near a gallon of mild oil. The gentleman, who is appointed by the community there to superintend their mills, designs, as we are informed, to pursue a further course of experiments on this subject, the result of which, we hope, will be communicated to this Society.

OUR correspondent at Lancaster informs the Society, that some persons in the neighbourhood of that place, have also expressed a quantity of oil from the seeds of the sun-flower. His account is as follows.

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